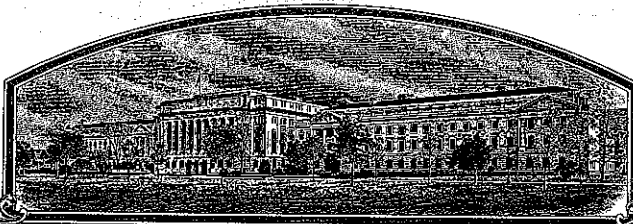


No.

9900312



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

U I Seed Co.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR SELLING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'TJS 410'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this fourteenth day of June, in the year of our Lord two thousand one.

Attest:

Alank. Post

Acting Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

[Signature]
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

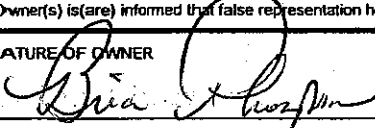
1. NAME OF OWNER T J Seed Co.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME		3. VARIETY NAME TJS 410	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 6464 Liv 418 Ludlow, MO 64656		5. TELEPHONE (include area code) (660) 738-4746		FOR OFFICIAL USE ONLY	
		6. FAX (include area code) (660) 646-3568		PVPO NUMBER 9900312	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Missouri		9. DATE OF INCORPORATION 12-21-98	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Brian Thompson, Pres. 6464 Liv 418 Ludlow, MO 64656				FILING AND EXAMINATION FEES: \$ 2450.00 DATE 6/4/99 CERTIFICATION FEE: \$ 320.00 DATE 5/25/01	
11. TELEPHONE (include area code) (660) 738-4746		12. FAX (include area code)		13. E-MAIL grtech@greenhills.net	
14. CROP KIND (Common Name) Soybean		15. GENUS AND SPECIES NAME OF CROP Glycine max L.		16. FAMILY NAME (Botanical) Leguminosae	
17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)			19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input type="checkbox"/> NO (If "no," go to item 22)		
			20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO		
			21. IF "YES" TO ITEM 20, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input checked="" type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)			23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Not at this time. IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)		
24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER 			SIGNATURE OF OWNER		
NAME (Please print or type) Brian Thompson			NAME (Please print or type)		
CAPACITY OR TITLE President		DATE 6-3-99		CAPACITY OR TITLE	
				DATE	

EXHIBIT A. Origin and Breeding History of the Variety

Soybean Variety TJS 410.

Variety TJS 410 was isolated from Applicant's cultivated field of Edison soybeans in 1994. TJS 410 has been propagated annually since 1995 and has undergone four years of testing. TJS 410 has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants.

225 acres of seedstock are scheduled to be under cultivation in the summer of 1999.

EXHIBIT B. Statement of Distinctness

Soybean Variety TJS 410.

Variety TJS 410 was isolated from a cultivated field of Edison soybeans. Edison is an indeterminate bean with purple flowers.

Variety TJS is a determinate bean, 8-10 inches taller than Edison, with larger leaves, white flowers, brown pubescence and yellow seeds.

UNITED STATES DEPARTMENT OF AGRICULTURE
 AGRICULTURAL MARKETING SERVICE
 SCIENCE AND TECHNOLOGY
 PLANT VARIETY PROTECTION OFFICE
 BELTSVILLE, MARYLAND 20705

9900312
 EXHIBIT C
 (SOYBEAN)

OBJECTIVE DESCRIPTION OF VARIETY
 SOYBEAN (*Glycine max* (L.) Merr.)

Name of Applicant: T J Seed Co.		Variety Name: TJS 410 Experimental Name (if applicable): (very important if one has ever been used):		
Address (Street and No., City, State, Zip Code): 6464 Liv 418 Ludlow, MO 64656		PLEASE DO NOT WRITE IN THIS SPACE FOR PVP OFFICE USE ONLY PVP NUMBER: _____		
For each characteristic, please place the number of the character state that best represents your variety in the corresponding box. If you feel the best choice is not listed, write in what you believe to be the most accurate description.				
1. [SSHP]: SEED SHAPE <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; margin: 5px;">2</div>	1=[SPHR] spherical: (L/W, L/T, and T/W ratios = < 1.2)	2=[SPHF] spherical-flattened: (L/W ratio > 1.2; L/T ratio < 1.2)	3=[ELON] elongate: (L/T ratio > 1.2; T/W < 1.2)	4=[ELFL] elongate-flattened: (L/T ratio > 1.2; T/W > 1.2)
2. [SCL]: SEED COAT COLOR: <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; margin: 5px;">1</div> 1=[YEL] yellow 2=[GRN] green 3=[BRN] brown 4=[BLK] black 5=[OTH] other (please specify) _____				
3. [LU]: SEED COAT LUSTER <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; margin: 5px;">1</div> 1=[DL] dull 2=[SH] shiny				
4. [SSZ]: SEED SIZE: <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; margin: 5px;">1</div> <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; margin: 5px;">2</div> grams/100 seeds				
5. [HCL]: HILUM COLOR: <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; margin: 5px;">6</div> 1=[BUF] buff 2=[YEL] yellow 3=[BRN] brown 4=[GRY] gray 5=[IBL] imperfect black 6=[BLA] black 7=[OTH] Other (please specify) _____				
6. [CCL]: COTYLEDON COLOR <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; margin: 5px;">1</div> 1=[YEL] yellow 2=[GRN] green				
7. [PA]: SEED PROTEIN PEROXIDASE ACTIVITY <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; margin: 5px;">1</div> 1=[LO] low 2=[HI] high				
8. [P]: SEED PROTEIN ELECTROPHORETIC BAND <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; margin: 5px;"></div> 1=[A] Type A 2=[B] Type B				
9. [HC]: HYPOCOTYL COLOR <div style="border: 1px solid black; width: 20px; height: 20px; text-align: center; margin: 5px;">1</div>	1=[GRN] green ('Evans'; 'Davis')	2=[GB] green with bronze band below cotyledons ('Woodworth'; 'Tracy')	3=[LPR] light purple below cotyledons ('Beeson'; 'Pickett 71')	4=[DPR] dark purple extending to unifoliolate leaves (Hodgson'; 'Coker Hampton 266A')

10. [SP]:LEAFLET SHAPE

☐ 3 1=[LN]lanceolate 2=[OL]oval 3=[OV]ovate 4=[OTH]other (specify) e.g., [CB]=oblong
[EP]=elliptical _____

11. [FCL]:FLOWER COLOR

☐ 1 1=[WHI]white 2=[PUR]purple 3=[WPT]white w/purple throat

12. [PCL]:POD COLOR

☐ 2 1=[TAN]tan 2=[BRN]brown 3=[BLA]black

13. [PBC]:PLANT PUBESCENCE COLOR

☐ 2 1=[GRY]gray 2=[BRN]brown 3=[TWN]tawny 4=[LTN]light tawny

14. [PHB]:PLANT HABIT

☐ 1 1=[DET]determinate ('Gnome'; 'Braxton') 2=[SDT]:semi-determinate ('Will')
3=[IND]indeterminate ('Nebsoy'; 'Improved Pelican') 4=[INT]:intermediate

15. [MAT]:MATURITY GROUP

☐ 7 1=000 2=00 3=0 4=I 5=II 6=III 7=IV 8=V 9=VI 10=VII 11=VIII 12=IX 13=X

16. [MATS]:MATURITY SUBGROUP (early) 1 2 3 4 5 6 7 8 9 (late)

☐ 1

17. DISEASE REACTION (Enter 0=not tested; 1=susceptible;
2=resistant; 3=tolerant)

B A C T E R I A L D I S E A S E S

☐ 0 [BCPS]:Bacterial Pustule (*Xanthomonas campestris* pv. *glycines* (Nakano) Dye)

☐ 0 [BCBL]:Bacterial Blight (*Pseudomonas syringae* pv. *glycinea* (Coerper) Young, Dye, & Wilkie)

☐ 0 [WDFR]:Wildfire Blight (*Pseudomonas syringae* pv. *tabaci* (Wolf & Foster) Young, Dye, & Wilkie)

F U N G A L D I S E A S E S

☐ 0 [BRSP]:Brown Spot (*Septoria glycines* Hemmi)

[FGEY]:Frogeye Leafspot (*Cercospora sojina* Hara)

☐ 0 [FG01]race1 ☐ 0 [FG02]race2 ☐ 0 [FG03]race3 ☐ 0 [FG04]race4 ☐ 0 [FG05]race5 ☐ 0 [FG06]race6

☐ [FG00]:other (please specify _____)

☐ [TRSP]:Target Spot (*Corynespora cassiicola* (Berk. & Curt.) Wei)

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☐ [DYML]:Downey Mildew (*Peronospora trifoliorum* var. *manchurica* (Naum.) Syd. ex Gäum.)

S O Y B E A N E X H I B I T "C": *Glycine max* (L.)Merr. (page 3 of 4)

(Enter 0=not tested; 1=susceptible;
2=resistant; 3=tolerant)

☐ [PWML]:Powdery Mildew (*Microsphaera diffusa* Cke. & Pk.)

☐ [BRSR]:Brown Stem Rot (*Phialophora gregata* (Allington & Chamberlain) W. Gams)

☐ [STCR]:Stem Canker (*Diaporthe phaseolorum* (Cke.& Ell.) Sacc. var. *caulivora* Athow & Caldwell)

☐ [PSBL]:Pod and Stem Blight (*Diaporthe phaseolorum* (Cke.&Ell.)Sacc. var. *sojae* (Lehman) Wehm.)

☐ [PRST]:Purple Seed Stain (*Cercospora kikuchii* (T. Matsu. & Tomoyasu) Gardner)

☐ [RZRT]:Rhizoctonia Root Rot (*Rhizoctonia solani* Kühn)

[PYPH]:Phytophthora Root Rot (*Phytophthora megasperma* Drechs. f. sp. *glycinea* Kuan & Erwin)

☐ [PY01]:race 1 ☐ [PY02]:race 2 ☐ [PY03]:race 3 ☐ [PY04]:race 4 ☐ [PY05]:race 5

☐ [PY06]:race 6 ☐ [PY07]:race 7 ☐ [PY08]:race 8 ☐ [PY09]:race 9 ☐ [PY10]:race 10

☐ [PY11]:race 11 ☐ [PY12:]race 12 ☐ [PY13]:race 13 ☐ [PY14]:race 14 ☐ [PY15]:race 15

☐ [PY16]:race 16 ☐ [PY17]:race 17 ☐ [PY18]:race 18 ☐ [PY19]:race 19 ☐ [PY20]:race 20

☐ [PY21]:race 21 ☐ [PY22]:race 22 ☐ [PY23]:race 23 ☐ [PY24]:race 24 ☐ [PY25]:race 25

☐ [PY26]:race 26 ☐ [OTHD]:other (please specify) _____

V I R A L D I S E A S E S

☐ [BDBL]:Bud Blight (Tobacco Ringspot Virus)

☐ [BYMO]:Yellow Mosaic (Bean Yellow Mosaic Virus)

☐ [CWCV]: Cowpea Mosaic (Cowpea Chlorotic Virus)

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☐ [PDML]: Pod Mottle (Bean Pod Mottle Virus)

☐ [SDMT]: Seed Mottle (Soybean Mosaic Virus)

N E M A T O D E S

[SYCY]: Soybean Cyst Nematode (*Heterodera glycines* Ichinohe)

☐ [SY01]: race 1 ☐ [SY02]: race 2 ☒ [SY03]: race 3 ☐ [SY05]: race 5

S O Y B E A N E X H I B I T "C": *Glycine max* (L.) Merr. (page 4 of 4)

(Enter 0=not tested; 1=susceptible;
2=resistant; 3=tolerant)

☐ [SY06]: race 6 ☐ [SY09]: race 9 ☐ [SY14]: race 14 (formerly race 4)

☐ [SY00]: other race (specify _____)

☐ [LANC]: Lance Nematode (*Hoplolaimus columbus* Sher)

☐ [RTKN]: Southern Root Knot Nematode (*Meloidogyne incognita* (Kofoid & White) Chitwood)

☐ [INTKN]: Northern Root Knot Nematode (*Meloidogyne hapla* Chitwood)

☐ [PTKN]: Peanut Root Knot Nematode (*Meloidogyne arenaria* (Neal) Chitwood)

☐ [RENM]: Reniform Nematode (*Rotylenchus reniformus* Linwood & Olivera)

☐ [OTHN]: other (specify _____)

20. PHYSIOLOGICAL RESPONSES:

☐ [CHLO]: Iron Chlorosis on Calcareous Soil

☐ other (please specify _____)

INSECT REACTIONS:

(Enter 0=not tested; 1=susceptible;
2=resistant; 3=tolerant)

☐ [MXBB]: Mexican Bean Beetle (*Epilachna*
varivestis)

☐ [POTH]: Potato Leaf Hopper (*Empoasca abae*)

☐ [OTHI]: other (please specify _____)

HERBICIDES

22. HERBICIDE RESISTANCE:

(Enter 0=not tested; 1=susceptible;
2=resistant; 3=tolerant)

☐ [MEZN]: Metribuzin

☐ [SULF]: Sulfonylurea

☐ [RNDP]: Roundup

☐ [OTHH]: other (please specify _____)

ADDITIONAL INFORMATION

Please add any additional information characteristic of your variety that you feel is pertinent. This information may be continued on additional pages and/or in the exhibit D.

EXHIBIT D. Additional Description of the Variety

Soybean Variety TJS 410

In Exhibit C we have identified Variety TJS 410 as susceptible to Phytophthora root rot races 1 and 3, and Soybean Cyst Nematode race 3.

This does not mean that variety TJS 410 is any more susceptible to these problems or is affected any more substantially than other varieties of similar maturity. Rather, we do not consider TJS 410 to be immune to these problems. Accordingly, we have elected to be conservative and have identified the line as "susceptible".

The oil content of the seed based on the dry weight is 22.7%.

The protein content of the seed based on the dry weight is 39.6%.

TJS 410 is an early group IV variety.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE**EXHIBIT E**
STATEMENT OF THE BASIS OF OWNERSHIP

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) T J Seed Co.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER TJS410EX	3. VARIETY NAME TJS 410
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 6464 Liv 418 Ludlow, MO 64656	5. TELEPHONE (include area code) (660) 738-4746	6. FAX (include area code) (660) 646-3568
7. PVPO NUMBER		

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. ☒ YES ☐ NO9. Is the applicant (individual or company) a U.S. national or U.S. based company?
If no, give name of country ☒ YES ☐ NO10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?

☐ YES ☐ NO If no, give name of country

b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (if needed, use reverse for extra space):

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.